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(19) **United States**(12) **Patent Application Publication** (10) **Pub. No.: US 2004/0239926 A1**  
(43) **Pub. Date:** **Dec. 2, 2004**(54) **METHOD FOR PERFORMING A  
SPECTROSCOPIC ANALYSIS ON A  
POLYMER SAMPLE, AND RELATED  
ARTICLES****Publication Classification**(51) **Int. Cl.<sup>7</sup>** ..... **G01J 3/42**(52) **U.S. Cl.** ..... **356/319**(76) **Inventors:** **Alex Dimitri Sokolowski**, Albany, NY  
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Murcia (ES)**Correspondence Address:****John B Yates, III****GE Plastics****One Plastics Avenue****Pittsfield, MA 01201 (US)**(21) **Appl. No.:** **10/445,570**(22) **Filed:** **May 27, 2003**(57) **ABSTRACT**

A sampling system for performing a spectroscopic analysis on a polymer during its production is described. The system includes a transfer tube capable of transporting the polymer from a production site to a storage site. The tube includes an entry site connected to the production site; and an exit site connected to the storage site. A transparent window is inserted into the wall of the tube, and a door or other barrier is provided to stop the flow of polymer through the tube, so that it accumulates against the window. A spectroscopic device situated outside the tube then takes a reading of the polymer through the window, to perform the desired analysis. Related methods are also described.

